

Fabreeko.com BadgerBox Simple ADXL

Prerequisites:

1. Klipper must be at least on firmware version 0.10.0-4XXX (May 8, 2022, was the firmware flashing date.)
 2. Dependencies must be installed. Run the following command:
 - a. `~/klippy-env/bin/pip install -v numpy`
(Note: depending on CPU speed this may take up to 10-20 minutes.)
 3. Next update additional dependencies by running the following commands:
 - a. `sudo apt update`
 - b. `sudo apt install python3-numpy python3-matplotlib`
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Hardware install:

The cable from the BadgerBox will have a GREEN marking on the dupont connector indicating it is the ground wire (see Image A below.) Insert the dupont connector to the ADXL chip so the GREEN marking (Image A) on the connector lands on the GND pin (Image B) of the ADXL.

Image A

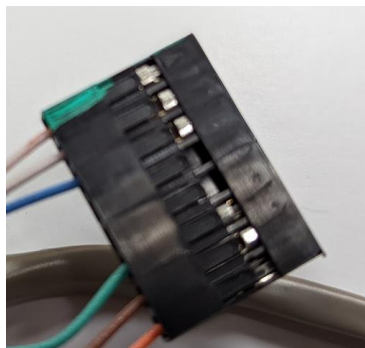


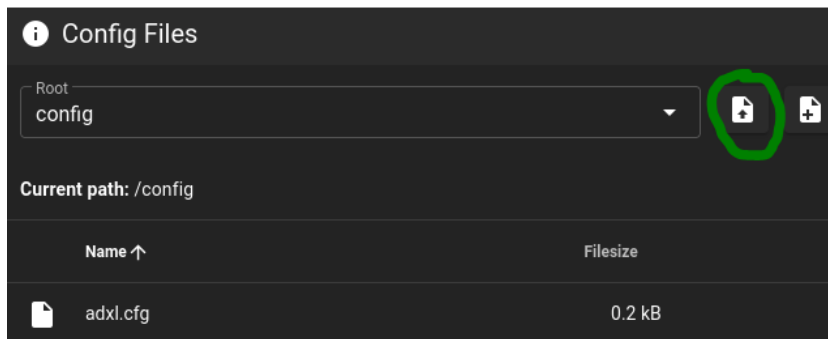
Image B



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Software configuration:

1. Download the adxl.cfg file from: [Default ADXL file](#)
2. Import file into Mainsail/Fluidd (see image below.)



3. Open the adxl file and insert your serial number located on the packaging.
**If you happen to lose the packaging, you can ssh into your raspberry pi and type the following: `ls /dev/serial/by-id/*`

```
##  
[mcu pico]  
serial: /dev/serial/by-id/usb-Klipper_rp2040_XXXXXXXXXXXXXXXX-if00
```

4. Open the printer.cfg file insert the following:
`[include adxl.cfg]`
5. Save & Restart.
6. Test by inserting the following into the console:
`ACCELEROMETER_QUERY`
(Note: the first time will likely fail. This is normal so press the up arrow and try it again.) If everything goes correctly you should receive sample values like the image below:

```
Recv: // adxl345 values (x, y, z): 470.719200, 941.438400, 9728.196800
```

7. Locate a mount for your printer via one of the STL repository sites.
8. To use the auto calibration feature, type the following into the console window:
`SHAPER_CALIBRATE`
Follow instructions in console window to save the values.
9. Refer to the Klipper Measuring Resonances documentation for any questions:
https://www.klipper3d.org/Measuring_Resonances.html